**SERIES MBLT**

**MINIATURE SUBMERSIBLE LEVEL TRANSMITTER**

Only 0.63” in Diameter, Perfect for Wells and Boreholes, Up to ±0.10% Accuracy, Low Power Models for Telemetry Systems

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**THE MBLT MINIATURE SUBMERSIBLE LEVEL TRANSMITTER** is only 0.63” in diameter making it ideal for level monitoring in well and borehole applications with 4 to 20 mA output. Designed for years of trouble free service, the MBLT has a welded 316 SS body and 316 SS nose cap. Body top is also 316 SS and tapered to prevent damage or snare when pulling the unit out of the installation. Featured in the MBLT is a precision ±0.10% or 0.25% of full scale accuracy output, better than BFSL or BSL rated outputs used by most competitors. Lightning and surge protection (not guaranteed or covered by standard warranty) is included standard to stand up in harsh applications. MBLT comes with a choice of polyether polyurethane or ETFE cable materials and all are vented for barometric pressure compensation. Vent is covered with a maintenance-free filter preventing particulate or water droplets from entering the transmitter. Voltage output models work down to 8 VDC for power requirements making them ideal for battery powered telemetry systems.

**APPLICATIONS**

Ballast tanks, ground water monitoring, surface water monitoring, dewatering, down making them ideal for battery powered telemetry systems.

**SPECIFICATIONS**

- Service: Compatible liquids.
- Wetted Materials: Body and nose: 316 SS; Cable: Polyether polyurethane or ETFE; Seals: Fluoroelastomer; Label: Polyolefin.
- Accuracy: ±0.25% or ±0.10% of FS**.
- Temperature Limits: -4 to 176°F (-20 to 80°C).
- Compensated Temperature Limits: 0.25%; (0 to 70°C); 0.10%; (0 to 60°C).
- Thermal Effect: 0.25%; ±0.45% FS TEB; 0.10%; ±0.30% FS TEB.
- Pressure Limit: 2x FS.
- Power Requirements: 4 to 33 VDC; Voltage output: 0 to 5 VDC; 5 mA max (no load).
- Current output: 4 to 20 mA DC 2-wire or 0 to 5V (model depending).
- Response Time: < 50 ms.
- Max Loop Resistance: 1000Ω @ 30 VDC (current output).
- Voltage Output Impedence: 100 + 4.4Ω / 100’ cable (voltage output).
- Weight: Body: 0.235 lb (0.107 kg); Cable: 0.037 lb (0.017 kg) per foot.
- Agency Approvals: CE.

**MODEL CHART**

<table>
<thead>
<tr>
<th>Model ±0.10%</th>
<th>Price</th>
<th>4 to 20 mA output</th>
<th>0 to 5 V output</th>
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<tbody>
<tr>
<td>-</td>
<td></td>
<td>Model ±0.25**</td>
<td>Model ±0.25**</td>
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**OPTIONS**

For custom ranges, cable lengths, or ETFE cable, contact the website for pricing.

**ACCESSORY**

<table>
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<tr>
<th>Model</th>
<th>Description</th>
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<tr>
<td>A-297</td>
<td>Desiccant filter for vent tube. Removes humidity for protection of the sensor. Changes color to show saturation</td>
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**COMMENTS**

- *Consult factory for additional outputs.*
- Compatibility with fluids is guaranteed or covered by standard warranty.
- Weight is given per foot.
- Electrical connections are wire pigtail.
- Mounting connections are suspended below point being monitored.
- Electrical protection is surge/lightning protected per EN61000-4-5, Class 5.
- Agency approval is CE.
- Wetted materials are body and nose: 316 SS; cable: Polyether polyurethane or ETFE.
- Seals are Fluoroelastomer; label: Polyolefin.
- Body is welded 316 SS, nose cap is 316 SS, and top is 316 SS.
- All are vented for barometric pressure compensation.
- Vent is covered with a maintenance-free filter.
- Voltage output models work down to 8 VDC for power requirements.
- Current output models work down to 4 to 20 mA and 0 to 5 V output.
- Service is compatible liquids.
- Temperature limits are -4 to 176°F (-20 to 80°C) and 0.25%; (0 to 70°C); 0.10%; (0 to 60°C).
- Thermal effect is 0.25%; ±0.45% FS TEB and 0.10%; ±0.30% FS TEB.
- Pressure limit is 2x FS.
- Power requirements are 4 to 33 VDC; Voltage output: 0 to 5 VDC; 5 mA max (no load).
- Current output: 4 to 20 mA DC 2-wire or 0 to 5V (model depending).
- Response time is < 50 ms.
- Max loop resistance is 1000Ω @ 30 VDC (current output).
- Voltage output impedance is 100 + 4.4Ω / 100’ cable (voltage output).
- Electrical connections: Wire pigtail.
- Mounting connection: Suspended below point being monitored.
- Electrical protection: Surge/lightning protected per EN61000-4-5, Class 5.
- Weight: Body: 0.235 lb (0.107 kg); Cable: 0.037 lb (0.017 kg) per foot.
- Agency approvals: CE.